

**Marotta is known for setting the bar
and for severing it.**



Clean Cut Pneumatic Guillotine

Marotta introduces 'Clean Cut' - the first pneumatic guillotine to replace pyrotechnics in a military application. This pneumatic cutting system is designed to sever the bar or cable of a device in tow in milliseconds. Anvil and blade are repairable, and the entire system is depot replaceable.



MAROTTA

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Farnborough Air Show - July 19 - 25, Hall 2, Stand A13

Clean Cut - Pneumatic Guillotine

Clean Cut is a powerful, cost effective system to sever cables, bars and tubes in milliseconds. By using high pressure compressed air, Clean Cut eliminates costly pyrotechnics and their associated blast residue, automatically improving safety, maintenance and logistics issues. Designed with high reliability and long service life in mind, Clean Cut's anvil and blade are repairable, and the entire system is depot replaceable.

Clean Cut can be modified for a variety of aircraft that require cables to be cut. Applications include in-flight refueling, helicopter tows, and intelligence antennas that are tethered beneath an aircraft.



*Qualified MIL-STD 810
Qualified MIL-STD-R-8573
High Reliability
Millisecond Operation
Pneumatic Operated
Manual Actuator Override
Long Service Life
Blade & Anvil repairable
Depot Replaceable*



Clean Cut Guillotine System

Marotta's Clean Cut Guillotine System consists of a cable cutter assembly, a solenoid valve, and a pressure vessel.

Cable Cutter Assembly - a technically simple piston based design, with an actuator force of 8,900 lbs. Equipped with a manual override which allows the cutter to be activated in the event of a loss of pressure. Cutter meets requirements of MIL-STD-810.

Solenoid Valve - 3-way/2-position solenoid valve, (Model MV74), a core product of Marotta for over 40 years and used with great success over a wide variety of aerospace applications. Equipped with a manual override which allows the cutter to be activated in the event of a loss of power.

Pressure Vessel— Provides pressurized volume of gas sufficient to stroke the guillotine cutter. Vessel meets requirements of MIL-R-8573 including gunfire fragmentation.

Features:

- Cut range—2" opening through cutter, designed to cut 1" cable
- Operating Temperature: -40°F to 180°F
- Operating Time: 5 milliseconds
- Body: Aluminum 7075 T73
- Anvil: Aluminum 2024-T6
- Blade: CRES 440C
- Cables: Aluminum 7050 T73, Kevlar
- Connector: Standard Shell
- Environment Resistant: Salt, Fog, Sand, Dust, Humidity
- Operating Pressure: 3000 psi
- Proof Pressure: 4500 psi
- Burst Pressure: 7500 psi



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WHEN IT COMES TO
HIGH PRESSURE PNEUMATICS
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